

McCrum Prob. 1.1

Define precision and atomic weights:

> **Digits:=4:H:=1:C:=12:unprotect(O):O:=16:F:=19:Cl:=35.5:**

Calculate relative molar masses (RMM):

(1) polybutene

> **'RMM'=1000*(C+H*2+C+H+(C*2+H*5));**

$$RMM = 56000$$

(2) polyvinyl fluoride

> **'RMM'=1000*(C+H*2+C+H+F);**

$$RMM = 46000$$

(3) polyvinylidene chloride

> **'RMM'=1000*(C+H*2+C+Cl*2);**

$$RMM = 97000.$$

(4) polybutylene

> **'RMM'=1000*(C+H*2+C+(C+H*3)*2);**

$$RMM = 56000$$

(5) polyvinyl alcohol

> **'RMM'=1000*(C+H*2+C+H+O+H);**

$$RMM = 44000$$

(6) polymethacrylate

> **'RMM'=1000*(C+H*3+C+O+O+C+H+C+H*2);**

$$RMM = 86000$$

